Zone Controllers

Features

- Advanced occupancy functions
- 3 configurable inputs
- Pre-configured sequences of operation
- Unique configuration setup utility
- Lockable keypad
- Available for 24Vac floating or 0-10Vdc output
- Auxiliary output

Specification

Power requirements	19-30Vac 50/60 Hz; 2VA Class 2
Operating conditions:	
Temp.	0 to 50°C
RH	0 to 95% (non-condensing)
Storage conditions:	
Temp.	-30 to +50°C
RH	0 to 95% (non-condensing)
Sensor	Local 10K NTC thermistor
Resolution	±0.1°C
Control accuracy	±0.5°C @ 21°C typical calibrated
Occupied and unoccupied setpoint range cooling	12.0 to 37.5°C
Occupied and unoccupied setpoint range heating	4.5 to 32°C
Room and outdoor air temperature display range	-40 to +50°C
Proportional band for room temperature control	Cooling & Heating: 1.8°C
Binary inputs	Dry contact across terminal BI1, BI2 & UI3
Contact output rating	Triac output: 30Vac, 1A Maximum, 3A in-rush
Analogue	0-10Vdc into 2kΩ resistance min.
Wire size	18 gauge maximum, 22 gauge recommended
Conformity	CE EMC Directive 89/336/EEC
Dimensions	125 x 86 x 29mm
Country of origin	Canada

Product Codes

CN-7200C
Zone controller, floating output

CN-7200F
Zone controller, analogue output

Suffixes:

B
BACnet MS-TP interface

E Echelon TP/FT-10 interface

-PIR
Integral PIR detector

Technical Overview

The CN-7200 series of zone controllers is specifically designed for zoning applications, such as reheat valve control and pressure dependent VAV, with or without local reheat. The controllers feature a backlit LCD display with dedicated function menu keys for simple operation. Accurate temperature control is achieved using a P+I control algorithm, which virtually eliminates the temperature offset associated with traditional, differential-based units. Models are available for 3 point floating or 0-10Vdc outputs. Provision for a remote room sensor (see Sontay TT-911-A, page xx) is available and all versions contain an SPST auxiliary switch that can be used to control lighting or auxiliary reheat. The controllers are available as stand alone types or with Echelon or BACnet MS/TP network adapters.

Benefits

- One model meet more applications
- Reduced project delivery cost
- Tamperproof, no need for housing guards
- Meets advanced applications requirements
- Can be used for lighting or reheat

Installation

- Remove security screw on the bottom of thermostat cover.
- Open up by pulling on the bottom side of thermostat
- Remove Assembly and remove wiring terminals from sticker.

A) Location:

1. Should not be installed on an outside wall.
2. Must be installed away from any heat source.
3. Should not be installed near an air discharge grill.
4. Should not be affected by direct sun radiation.
5. Nothing must restrain vertical air circulation to the thermostat.

Installation (continued)

B) Installation:

1. Swing open the thermostat PCB to the left by pressing the PCB locking tabs. (Fig. 1)
2. Pull out cables 6" out of the wall.
3. Wall surface must be flat and clean.
4. Insert cable in the central hole of the base.
5. Align the base and mark the location of the two mounting holes on the wall. Install proper side of base up.
6. Install anchors in the wall.
7. Insert screws in mounting holes on each side of the base. (Fig. 1)
8. Gently swing back the circuit board on the base and push on it until the tabs lock it.
9. Strip each wire 1/4 inch.
10. Insert each wire according to wiring diagram.
11. Gently push back into hole excess wring (Fig. 2)
12. Re-Install wiring terminals in correct location. (Fig. 2)
13. Reinstall the cover (top side first) and gently push back extra wire length into the hole in the wall.
14. Install security screw.

Fig. 1

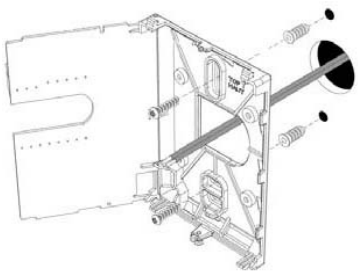
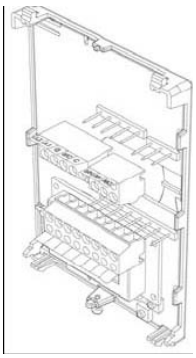
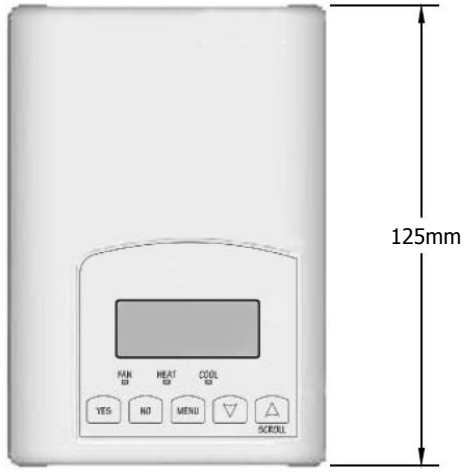
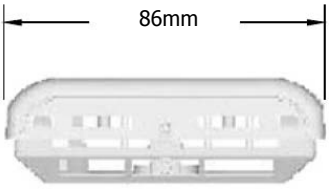


Fig. 2



Dimensions





Note:
Full operating instructions are supplied with each unit.